

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application. The following listing provides the amended claims with deleted material crossed out and new material underlined to show the changes made.

**Listing of Claims:**

1. (Previously Presented) A system, comprising:

a mobile station, including:

a first level 1, a first level 2, and a first level 3 protocol for a licensed wireless service having a licensed wireless channel serviced by a telecommunications network;

and

a second level 1, a second level 2, and a second level 3 protocol for an unlicensed wireless service activated when said mobile station is within an unlicensed wireless service area;

an indoor base station operable to communicate with said mobile station through an unlicensed wireless channel; and

an indoor network controller coupled to said indoor base station and adapted to exchange signals with said telecommunications network;

wherein said network controller is configured to convert said second level 1, said second level 2, and said second level 3 protocol into a standard base station controller interface protocol recognized by said telecommunications network;

wherein said indoor base station operates transparently to said second level 3 protocol;

wherein said mobile station and said network controller are configured to establish a communication session on said unlicensed wireless channel using said standard base station controller interface protocol of said licensed network

2. (Canceled)

3. (Original) The system of claim 1, wherein said telecommunication network comprises a mobile switch center for voice data.

4. (Original) The system of claim 1, wherein said mobile station is configured to register its location with said indoor network controller subsequent to detection that it is within said unlicensed wireless service area.

5. (Original) The system of claim 1, wherein said second level 1 protocol comprises a Bluetooth protocol.

6. (Original) The system of claim 1, wherein said second level 1 protocol comprises a wireless local area network protocol.

7. (Original) The system of claim 1, wherein said second level 3 protocol comprises a radio resource sublayer adapted for said unlicensed wireless system, wherein an access mode switch is triggered to utilize a mobility management sublayer and a call management sublayer shared with said first level 3 protocol.

8. (Previously Presented) The system of claim 1, wherein said second level 1 protocol comprises 802.11 IEEE wireless standard protocol.

9-20. (Canceled)

21. (New) A method of establishing communication between a licensed wireless communication system and an unlicensed wireless communication system, the method comprising:

with the licensed wireless communication system, servicing a licensed wireless channel of a mobile station, wherein the mobile station has a first level 1, a first level 2, and a first level 3 protocol for a licensed wireless service;

5 with the mobile station, establishing a communication through an unlicensed wireless channel when the mobile station is within an unlicensed wireless service area, said communication utilizing a second level 1, a second level 2, and a second level 3 protocol for an unlicensed wireless service;

at a network controller, converting said second level 1, said second level 2, and said second level 3 protocols into a standard base station controller interface protocol recognized  
10 by the licensed wireless communication system; and

exchanging signals between the indoor network controller and the licensed wireless communication system, wherein the indoor network controller is coupled to an indoor base station that services the unlicensed wireless service area and communicates through the unlicensed wireless channel with the mobile station, said indoor base station operating  
15 transparently to said second level 3 protocol.

22. (Original) The method of claim 21, wherein said licensed wireless communication system comprises a mobile switch center for voice data.

23. (Original) The method of claim 21, further comprising:  
configuring said mobile station to register its location with said indoor network  
20 controller subsequent to detection that it is within said unlicensed wireless service area.

24. (Original) The method of claim 21, wherein said second level 1 protocol comprises a Bluetooth protocol.

25. (Original) The method of claim 21, wherein said second level 1 protocol comprises a wireless local area network protocol.

26. (Original) The method of claim 21, wherein said second level 3 protocol comprises a radio resource sublayer adapted for said unlicensed wireless system, the method further comprising:

triggering an access mode switch to utilize a mobility management sublayer and a  
5 call management sublayer shared with said first level 3 protocol.

27. (Previously Presented) The method of claim 21, wherein said second level 1 protocol comprises 802.11 IEEE wireless standard protocol.